

## UNCLASSIFIED

| ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)  |                   |                     |                     |  |                     |                     |                           | DATE<br><b>February 1999</b> |                     |            |
|---|-------------------|---------------------|---------------------|--|---------------------|---------------------|---------------------------|------------------------------|---------------------|------------|
| BUDGET ACTIVITY<br><b>5 - Engineering and Manufacturing Development</b>   |                   |                     |                     | PE NUMBER AND TITLE<br><b>0604766A Tactical Exploitation of National Capabilities (TENCAP) - Engineering &amp; Manufacturing Development (TIARA)</b> |                     |                     |                           | PROJECT<br><b>D909</b>       |                     |            |
| COST (In Thousands)   | FY 1998<br>Actual | FY 1999<br>Estimate | FY 2000<br>Estimate | FY 2001<br>Estimate  | FY 2002<br>Estimate | FY 2003<br>Estimate | FY 2004<br>Estimate       | FY 2005<br>Estimate          | Cost to<br>Complete | Total Cost |
| D909 Tactical Exploitation of National Capabilities - Engineering Development   | 17221             | 43950               | 70940               | 57008  | 88953               | 71418               | 65472                     | 61538                        | Continuing          | Continuing |
| <p><b>A. <u>Mission Description and Budget Item Justification:</u></b> This project supports the engineering development/enhancement of the Electronic Tactical User Terminal (ETUT), Mobile Integrated Tactical Terminal (MITT), Forward Area Support Terminal (FAST), Advanced Electronic Processing Dissemination System (AEPDS) and Tactical Exploitation System (TES). The Army's emerging TES will incorporate the standards and protocols dictated by the Common Imagery Ground/Surface System (CIG/SS) program. TES brings all of the existing and emerging Army TENCAP capabilities (AEPDS, MIES, and ETRAC) into an integrated common baseline; downsized, modular and scalable to meet a wide range of contingency requirements. TENCAP Common Baseline addresses common subsystems, planned improvements, key activities and ongoing/planned initiatives determined to have potential application to multiple TENCAP systems. MIES, ETRAC, and the CIG/SS portion of TES are funded under PE 0305208A. Specific details are provided in the Tactical Intelligence and Related Activities (TIARA) Congressional Budget Justification Book, Volume II and in the Army TENCAP Master Plan.</p> <p><b>FY 1998 Accomplishments:</b></p> <ul style="list-style-type: none"> <li>• 6401 Continued software upgrades and enhancements for the refinement of the TENCAP Common Baseline to fully exploit National capabilities such as integration of communications capabilities to meet changing architectures and implementation of software appliqué to provide the operational commander with enhanced battlefield intelligence products. In addition to staying current with National and Theater capabilities, will include integration of Global Broadcast System (GBS) and the Joint Tactical Terminal (JTT) into the TENCAP systems.</li> <li>• 8480 Continued engineering development of TES #1.</li> <li>• 2340 Continued support to TENCAP program management and administrative activities [e.g. FFRDC (Aerospace), ARL support, ASPO support, Army Topographic Engineering Center (TEC)].</li> </ul> <p>Total 17221</p> <p><b>FY 1999 Planned Program:</b></p> <ul style="list-style-type: none"> <li>• 16489 Continue software upgrades and enhancements for the refinement of the TENCAP Common Baseline to fully exploit National capabilities such as integration of communications capabilities to meet changing architectures and implementation of software appliqué to provide the operational commander with enhanced battlefield intelligence products. In addition to staying current with National and Theater capabilities, will include integration of Global Broadcast System (GBS) and the Joint Tactical Terminal (JTT) into the TENCAP systems.</li> <li>• 3000 Initiate engineering development of Tactical SIGINT Processor (TSP) for integration into TES to provide critical intelligence data to Tactical Commanders.</li> </ul> |                   |                     |                     |  |                     |                     |                           |                              |                     |            |
| Project D909  |                   |                     | Page 1 of 6 Pages   |  |                     |                     | Exhibit R-2 (PE 0604766A) |                              |                     |            |

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| BUDGET ACTIVITY<br><b>5 - Engineering and Manufacturing Development</b>   | PE NUMBER AND TITLE<br><b>0604766A Tactical Exploitation of National Capabilities (TENCAP) - Engineering &amp; Manufacturing Development (TIARA)</b> | PROJECT<br><b>D909</b>       |
| <p><b>FY 1999 Planned Program: (continued)</b></p> <ul style="list-style-type: none"> <li>• 17388 Continue engineering development of TES #1.</li> <li>• 5426 Continue support to TENCAP program management and administrative activities (e.g. FFRDC (Aerospace), ARL support, ASPO support, Army Topographic Engineering Center (TEC)).</li> <li>• 1647 Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR) Programs</li> </ul> <p>Total 43950</p> <p><b>FY 2000 Planned Program:</b></p> <ul style="list-style-type: none"> <li>• 24045 Continue software upgrades and enhancements for the refinement of the TENCAP Common Baseline to fully exploit National capabilities such as integration of communications capabilities to meet changing architectures and implementation of software appliqué to provide the operational commander with enhanced battlefield intelligence products. In addition to staying current with National and Theater capabilities, will include integration of Global Broadcast System (GBS) and the Joint Tactical Terminal (JTT) into the TENCAP systems.</li> <li>• 8000 Continue engineering development of TSP.</li> <li>• 6500 Develop prototype Division TES (DTES)</li> <li>• 10259 Complete engineering development of TES #1.</li> <li>• 16391 Begin engineering development of TES #2.</li> <li>• 5745 Continue support to TENCAP program management and administrative activities (e.g. FFRDC (Aerospace), ARL support, ASPO support, Army Topographic Engineering Center (TEC)).</li> </ul> <p>Total 70940</p> <p><b>FY 2001 Planned Program:</b></p> <ul style="list-style-type: none"> <li>• 24825 Continue software upgrades and enhancements for the refinement of the TENCAP Common Baseline to fully exploit National capabilities such as integration of communications capabilities to meet changing architectures and implementation of software appliqué to provide the operational commander with enhanced battlefield intelligence products. In addition to staying current with National and Theater capabilities, will include integration of Global Broadcast System (GBS) and the Joint Tactical Terminal (JTT) into the TENCAP systems.</li> <li>• 8000 Complete engineering development of TSP.</li> <li>• 6500 Initiate integration of Tactical Downlink Collectors into TES</li> <li>• 6224 Complete engineering development of TES #2.</li> <li>• 5522 Initiate engineering development of TES #3.</li> <li>• 500 Test prototype DTES</li> </ul> |  |                              |
| Project D909  | Page 2 of 6 Pages  | Exhibit R-2 (PE 0604766A)    |

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|---|----------------|----------------|----------------|---|----------------|----------------|------------------------------|-------------------------------|---|----------------------|---------------------------|----------------|----------------|--|----------------|----------------|----------------|--------------------|----------------------|----------------------------------|-------|--|--|-----------------------------------|--|--|--|--|-------------------------------------|-------|-------------|-------|--|----------------|------|--|--|--|--|------|-------|----------------------------------|--|----------------------------------|--|--|--|--|----------------|--|--|--|-------------|--|------|------|-------|------|---|-------|-------|-------|-------|----------------------------------|--|--|--|--|--|--|--|--|--|--|-------------------------------|-------|--|--|--|--|--|--|--|---|-------|--------------------------------------|--|--|--|--|--|--|--|--|--|--|---------------|------|------|------|-------|-------|-------|------|------|------|------|--------------|--|------|------|------|------|------|------|------|------|------|----------------------------------|--|--|--|--|--|--|--|--|--|--|-------------------------------|-------|--|--|--|--|--|--|--|---|-------|
| <b>BUDGET ACTIVITY</b><br><b>5 - Engineering and Manufacturing Development</b>  |                |                |                | <b>PE NUMBER AND TITLE</b><br><b>0604766A Tactical Exploitation of National Capabilities (TENCAP) - Engineering &amp; Manufacturing Development (TIARA)</b> |                |                |                              | <b>PROJECT</b><br><b>D909</b> |   |                      |                           |                |                |  |                |                |                |                    |                      |                                  |       |  |  |                                   |  |  |  |  |                                     |       |             |       |  |                |      |  |  |  |  |      |       |                                  |  |                                  |  |  |  |  |                |  |  |  |             |  |      |      |       |      |   |       |       |       |       |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |                                      |  |  |  |  |  |  |  |  |  |  |               |      |      |      |       |       |       |      |      |      |      |              |  |      |      |      |      |      |      |      |      |      |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |
| <b>FY 2001 Planned Program: (continued)</b><br><ul style="list-style-type: none"> <li>• 5437 Continue support to TENCAP program management and administrative activities (e.g. FFRDC (Aerospace), ARL support, ASPO support, Army Topographic Engineering Center (TEC)).</li> </ul> Total        57008  |                |                |                |   |                |                |                              |                               |   |                      |                           |                |                |  |                |                |                |                    |                      |                                  |       |  |  |                                   |  |  |  |  |                                     |       |             |       |  |                |      |  |  |  |  |      |       |                                  |  |                                  |  |  |  |  |                |  |  |  |             |  |      |      |       |      |   |       |       |       |       |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |                                      |  |  |  |  |  |  |  |  |  |  |               |      |      |      |       |       |       |      |      |      |      |              |  |      |      |      |      |      |      |      |      |      |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 2px;"><b>B. Program Change Summary</b></th> <th style="text-align: center; padding: 2px;"><u>FY 1998</u></th> <th style="text-align: center; padding: 2px;"><u>FY 1999</u></th> <th style="text-align: center; padding: 2px;"><u>FY 2000</u></th> <th style="text-align: center; padding: 2px;"><u>FY 2001</u></th> </tr> </thead> <tbody> <tr> <td style="padding: 2px;">Previous President's Budget (<u>FY 1999</u> PB)</td> <td style="text-align: center; padding: 2px;">17807</td> <td style="text-align: center; padding: 2px;">44674</td> <td style="text-align: center; padding: 2px;">79740</td> <td style="text-align: center; padding: 2px;">56213</td> </tr> <tr> <td style="padding: 2px;">Appropriated Value</td> <td style="text-align: center; padding: 2px;">19113</td> <td style="text-align: center; padding: 2px;">44674</td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;">Adjustments to Appropriated Value</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;">a. Congressional General Reductions</td> <td style="text-align: center; padding: 2px;">-1306</td> <td style="text-align: center; padding: 2px;">-724</td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;">b. SBIR / STTR</td> <td style="text-align: center; padding: 2px;">-441</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;">c. Omnibus or Other Above Threshold Reductions</td> <td style="text-align: center; padding: 2px;">-145</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;">d. Below Threshold Reprogramming</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;">e. Rescissions</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;">Adjustments to Budget Years Since FY 1999 PB</td> <td></td> <td></td> <td style="text-align: center; padding: 2px;">-8800</td> <td style="text-align: center; padding: 2px;">795</td> </tr> <tr> <td style="padding: 2px;">Current Budget Submit (<u>FY 2000 / 2001</u> PB)</td> <td style="text-align: center; padding: 2px;">17221</td> <td style="text-align: center; padding: 2px;">43950</td> <td style="text-align: center; padding: 2px;">70940</td> <td style="text-align: center; padding: 2px;">57008</td> </tr> </tbody> </table>  |                |                |                |   |                |                |                              |                               | <b>B. Program Change Summary</b>        | <u>FY 1998</u>       | <u>FY 1999</u>            | <u>FY 2000</u> | <u>FY 2001</u> | Previous President's Budget ( <u>FY 1999</u> PB) | 17807          | 44674          | 79740          | 56213              | Appropriated Value   | 19113                            | 44674 |  |  | Adjustments to Appropriated Value |  |  |  |  | a. Congressional General Reductions | -1306 | -724        |       |  | b. SBIR / STTR | -441 |  |  |  | c. Omnibus or Other Above Threshold Reductions | -145 |       |                                  |  | d. Below Threshold Reprogramming |  |  |  |  | e. Rescissions |  |  |  |             | Adjustments to Budget Years Since FY 1999 PB |      |      | -8800 | 795  | Current Budget Submit ( <u>FY 2000 / 2001</u> PB) | 17221 | 43950 | 70940 | 57008 |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |                                      |  |  |  |  |  |  |  |  |  |  |               |      |      |      |       |       |       |      |      |      |      |              |  |      |      |      |      |      |      |      |      |      |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |
| <b>B. Program Change Summary</b>  | <u>FY 1998</u> | <u>FY 1999</u> | <u>FY 2000</u> | <u>FY 2001</u>  |                |                |                              |                               |   |                      |                           |                |                |  |                |                |                |                    |                      |                                  |       |  |  |                                   |  |  |  |  |                                     |       |             |       |  |                |      |  |  |  |  |      |       |                                  |  |                                  |  |  |  |  |                |  |  |  |             |  |      |      |       |      |   |       |       |       |       |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |                                      |  |  |  |  |  |  |  |  |  |  |               |      |      |      |       |       |       |      |      |      |      |              |  |      |      |      |      |      |      |      |      |      |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |
| Previous President's Budget ( <u>FY 1999</u> PB)  | 17807          | 44674          | 79740          | 56213   |                |                |                              |                               |   |                      |                           |                |                |  |                |                |                |                    |                      |                                  |       |  |  |                                   |  |  |  |  |                                     |       |             |       |  |                |      |  |  |  |  |      |       |                                  |  |                                  |  |  |  |  |                |  |  |  |             |  |      |      |       |      |   |       |       |       |       |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |                                      |  |  |  |  |  |  |  |  |  |  |               |      |      |      |       |       |       |      |      |      |      |              |  |      |      |      |      |      |      |      |      |      |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |
| Appropriated Value  | 19113          | 44674          |                |   |                |                |                              |                               |   |                      |                           |                |                |  |                |                |                |                    |                      |                                  |       |  |  |                                   |  |  |  |  |                                     |       |             |       |  |                |      |  |  |  |  |      |       |                                  |  |                                  |  |  |  |  |                |  |  |  |             |  |      |      |       |      |   |       |       |       |       |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |                                      |  |  |  |  |  |  |  |  |  |  |               |      |      |      |       |       |       |      |      |      |      |              |  |      |      |      |      |      |      |      |      |      |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |
| Adjustments to Appropriated Value   |                |                |                |   |                |                |                              |                               |   |                      |                           |                |                |  |                |                |                |                    |                      |                                  |       |  |  |                                   |  |  |  |  |                                     |       |             |       |  |                |      |  |  |  |  |      |       |                                  |  |                                  |  |  |  |  |                |  |  |  |             |  |      |      |       |      |   |       |       |       |       |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |                                      |  |  |  |  |  |  |  |  |  |  |               |      |      |      |       |       |       |      |      |      |      |              |  |      |      |      |      |      |      |      |      |      |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |
| a. Congressional General Reductions   | -1306          | -724           |                |   |                |                |                              |                               |   |                      |                           |                |                |  |                |                |                |                    |                      |                                  |       |  |  |                                   |  |  |  |  |                                     |       |             |       |  |                |      |  |  |  |  |      |       |                                  |  |                                  |  |  |  |  |                |  |  |  |             |  |      |      |       |      |   |       |       |       |       |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |                                      |  |  |  |  |  |  |  |  |  |  |               |      |      |      |       |       |       |      |      |      |      |              |  |      |      |      |      |      |      |      |      |      |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |
| b. SBIR / STTR  | -441           |                |                |   |                |                |                              |                               |   |                      |                           |                |                |  |                |                |                |                    |                      |                                  |       |  |  |                                   |  |  |  |  |                                     |       |             |       |  |                |      |  |  |  |  |      |       |                                  |  |                                  |  |  |  |  |                |  |  |  |             |  |      |      |       |      |   |       |       |       |       |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |                                      |  |  |  |  |  |  |  |  |  |  |               |      |      |      |       |       |       |      |      |      |      |              |  |      |      |      |      |      |      |      |      |      |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |
| c. Omnibus or Other Above Threshold Reductions  | -145           |                |                |   |                |                |                              |                               |   |                      |                           |                |                |  |                |                |                |                    |                      |                                  |       |  |  |                                   |  |  |  |  |                                     |       |             |       |  |                |      |  |  |  |  |      |       |                                  |  |                                  |  |  |  |  |                |  |  |  |             |  |      |      |       |      |   |       |       |       |       |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |                                      |  |  |  |  |  |  |  |  |  |  |               |      |      |      |       |       |       |      |      |      |      |              |  |      |      |      |      |      |      |      |      |      |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |
| d. Below Threshold Reprogramming  |                |                |                |   |                |                |                              |                               |   |                      |                           |                |                |  |                |                |                |                    |                      |                                  |       |  |  |                                   |  |  |  |  |                                     |       |             |       |  |                |      |  |  |  |  |      |       |                                  |  |                                  |  |  |  |  |                |  |  |  |             |  |      |      |       |      |   |       |       |       |       |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |                                      |  |  |  |  |  |  |  |  |  |  |               |      |      |      |       |       |       |      |      |      |      |              |  |      |      |      |      |      |      |      |      |      |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |
| e. Rescissions  |                |                |                |   |                |                |                              |                               |   |                      |                           |                |                |  |                |                |                |                    |                      |                                  |       |  |  |                                   |  |  |  |  |                                     |       |             |       |  |                |      |  |  |  |  |      |       |                                  |  |                                  |  |  |  |  |                |  |  |  |             |  |      |      |       |      |   |       |       |       |       |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |                                      |  |  |  |  |  |  |  |  |  |  |               |      |      |      |       |       |       |      |      |      |      |              |  |      |      |      |      |      |      |      |      |      |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |
| Adjustments to Budget Years Since FY 1999 PB  |                |                | -8800          | 795   |                |                |                              |                               |   |                      |                           |                |                |  |                |                |                |                    |                      |                                  |       |  |  |                                   |  |  |  |  |                                     |       |             |       |  |                |      |  |  |  |  |      |       |                                  |  |                                  |  |  |  |  |                |  |  |  |             |  |      |      |       |      |   |       |       |       |       |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |                                      |  |  |  |  |  |  |  |  |  |  |               |      |      |      |       |       |       |      |      |      |      |              |  |      |      |      |      |      |      |      |      |      |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |
| Current Budget Submit ( <u>FY 2000 / 2001</u> PB)   | 17221          | 43950          | 70940          | 57008   |                |                |                              |                               |   |                      |                           |                |                |  |                |                |                |                    |                      |                                  |       |  |  |                                   |  |  |  |  |                                     |       |             |       |  |                |      |  |  |  |  |      |       |                                  |  |                                  |  |  |  |  |                |  |  |  |             |  |      |      |       |      |   |       |       |       |       |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |                                      |  |  |  |  |  |  |  |  |  |  |               |      |      |      |       |       |       |      |      |      |      |              |  |      |      |      |      |      |      |      |      |      |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |
| Change Summary Explanation: FY 2000 funds reprogrammed (-8800) for higher priority requirements.  |                |                |                |   |                |                |                              |                               |   |                      |                           |                |                |  |                |                |                |                    |                      |                                  |       |  |  |                                   |  |  |  |  |                                     |       |             |       |  |                |      |  |  |  |  |      |       |                                  |  |                                  |  |  |  |  |                |  |  |  |             |  |      |      |       |      |   |       |       |       |       |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |                                      |  |  |  |  |  |  |  |  |  |  |               |      |      |      |       |       |       |      |      |      |      |              |  |      |      |      |      |      |      |      |      |      |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 2px;"><b>C. Other Program Funding Summary</b></th> <th style="text-align: center; padding: 2px;"><u>FY 1998</u></th> <th style="text-align: center; padding: 2px;"><u>FY 1999</u></th> <th style="text-align: center; padding: 2px;"><u>FY 2000</u></th> <th style="text-align: center; padding: 2px;"><u>FY 2001</u></th> <th style="text-align: center; padding: 2px;"><u>FY 2002</u></th> <th style="text-align: center; padding: 2px;"><u>FY 2003</u></th> <th style="text-align: center; padding: 2px;"><u>FY 2004</u></th> <th style="text-align: center; padding: 2px;"><u>FY 2005</u></th> <th style="text-align: center; padding: 2px;">To<br/><u>Compl</u></th> <th style="text-align: center; padding: 2px;">Total<br/><u>Cost</u></th> </tr> </thead> <tbody> <tr> <td style="padding: 2px;"><b>RDTE, A</b> Budget Activity 4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;">PE 0603766A</td> <td style="text-align: center; padding: 2px;">18957</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center; padding: 2px;">0</td> <td style="text-align: center; padding: 2px;">18957</td> </tr> <tr> <td style="padding: 2px;"><b>RDTE, A</b> Budget Activity 7</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;">PE 0305208A</td> <td></td> <td style="text-align: center; padding: 2px;">8853</td> <td style="text-align: center; padding: 2px;">8066</td> <td style="text-align: center; padding: 2px;">7943</td> <td style="text-align: center; padding: 2px;">8276</td> <td style="text-align: center; padding: 2px;">8360</td> <td style="text-align: center; padding: 2px;">8525</td> <td style="text-align: center; padding: 2px;">8767</td> <td style="text-align: center; padding: 2px;">Cont</td> <td style="text-align: center; padding: 2px;">Cont</td> </tr> <tr> <td style="padding: 2px;"><b>RDTE, D</b> Budget Activity 7</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;">PE 0305208D Project PD8Z DARP</td> <td style="text-align: center; padding: 2px;">29062</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center; padding: 2px;">0</td> <td style="text-align: center; padding: 2px;">29062</td> </tr> <tr> <td style="padding: 2px;"><b>Other Procurement Army, OPA-2</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;">BZ7315 TENCAP</td> <td style="text-align: center; padding: 2px;">1618</td> <td style="text-align: center; padding: 2px;">6073</td> <td style="text-align: center; padding: 2px;">4370</td> <td style="text-align: center; padding: 2px;">12946</td> <td style="text-align: center; padding: 2px;">13876</td> <td style="text-align: center; padding: 2px;">15713</td> <td style="text-align: center; padding: 2px;">3897</td> <td style="text-align: center; padding: 2px;">2943</td> <td style="text-align: center; padding: 2px;">Cont</td> <td style="text-align: center; padding: 2px;">Cont</td> </tr> <tr> <td style="padding: 2px;">BZ7316 CIGSS</td> <td></td> <td style="text-align: center; padding: 2px;">2501</td> <td style="text-align: center; padding: 2px;">2791</td> <td style="text-align: center; padding: 2px;">2853</td> <td style="text-align: center; padding: 2px;">2624</td> <td style="text-align: center; padding: 2px;">2637</td> <td style="text-align: center; padding: 2px;">2683</td> <td style="text-align: center; padding: 2px;">2751</td> <td style="text-align: center; padding: 2px;">Cont</td> <td style="text-align: center; padding: 2px;">Cont</td> </tr> <tr> <td style="padding: 2px;"><b>Procurement, Defense Wide</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;">PE 0305208D Project PD8Z DARP</td> <td style="text-align: center; padding: 2px;">91824</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center; padding: 2px;">0</td> <td style="text-align: center; padding: 2px;">91824</td> </tr> </tbody> </table> |                |                |                |   |                |                |                              |                               | <b>C. Other Program Funding Summary</b> | <u>FY 1998</u>       | <u>FY 1999</u>            | <u>FY 2000</u> | <u>FY 2001</u> | <u>FY 2002</u>                                   | <u>FY 2003</u> | <u>FY 2004</u> | <u>FY 2005</u> | To<br><u>Compl</u> | Total<br><u>Cost</u> | <b>RDTE, A</b> Budget Activity 4 |       |  |  |                                   |  |  |  |  |                                     |       | PE 0603766A | 18957 |  |                |      |  |  |  |  | 0    | 18957 | <b>RDTE, A</b> Budget Activity 7 |  |                                  |  |  |  |  |                |  |  |  | PE 0305208A |  | 8853 | 8066 | 7943  | 8276 | 8360  | 8525  | 8767  | Cont  | Cont  | <b>RDTE, D</b> Budget Activity 7 |  |  |  |  |  |  |  |  |  |  | PE 0305208D Project PD8Z DARP | 29062 |  |  |  |  |  |  |  | 0 | 29062 | <b>Other Procurement Army, OPA-2</b> |  |  |  |  |  |  |  |  |  |  | BZ7315 TENCAP | 1618 | 6073 | 4370 | 12946 | 13876 | 15713 | 3897 | 2943 | Cont | Cont | BZ7316 CIGSS |  | 2501 | 2791 | 2853 | 2624 | 2637 | 2683 | 2751 | Cont | Cont | <b>Procurement, Defense Wide</b> |  |  |  |  |  |  |  |  |  |  | PE 0305208D Project PD8Z DARP | 91824 |  |  |  |  |  |  |  | 0 | 91824 |
| <b>C. Other Program Funding Summary</b>   | <u>FY 1998</u> | <u>FY 1999</u> | <u>FY 2000</u> | <u>FY 2001</u>  | <u>FY 2002</u> | <u>FY 2003</u> | <u>FY 2004</u>               | <u>FY 2005</u>                | To<br><u>Compl</u>                      | Total<br><u>Cost</u> |                           |                |                |  |                |                |                |                    |                      |                                  |       |  |  |                                   |  |  |  |  |                                     |       |             |       |  |                |      |  |  |  |  |      |       |                                  |  |                                  |  |  |  |  |                |  |  |  |             |  |      |      |       |      |   |       |       |       |       |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |                                      |  |  |  |  |  |  |  |  |  |  |               |      |      |      |       |       |       |      |      |      |      |              |  |      |      |      |      |      |      |      |      |      |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |
| <b>RDTE, A</b> Budget Activity 4  |                |                |                |   |                |                |                              |                               |   |                      |                           |                |                |  |                |                |                |                    |                      |                                  |       |  |  |                                   |  |  |  |  |                                     |       |             |       |  |                |      |  |  |  |  |      |       |                                  |  |                                  |  |  |  |  |                |  |  |  |             |  |      |      |       |      |   |       |       |       |       |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |                                      |  |  |  |  |  |  |  |  |  |  |               |      |      |      |       |       |       |      |      |      |      |              |  |      |      |      |      |      |      |      |      |      |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |
| PE 0603766A   | 18957          |                |                |   |                |                |                              |                               | 0                                       | 18957                |                           |                |                |  |                |                |                |                    |                      |                                  |       |  |  |                                   |  |  |  |  |                                     |       |             |       |  |                |      |  |  |  |  |      |       |                                  |  |                                  |  |  |  |  |                |  |  |  |             |  |      |      |       |      |   |       |       |       |       |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |                                      |  |  |  |  |  |  |  |  |  |  |               |      |      |      |       |       |       |      |      |      |      |              |  |      |      |      |      |      |      |      |      |      |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |
| <b>RDTE, A</b> Budget Activity 7  |                |                |                |   |                |                |                              |                               |   |                      |                           |                |                |  |                |                |                |                    |                      |                                  |       |  |  |                                   |  |  |  |  |                                     |       |             |       |  |                |      |  |  |  |  |      |       |                                  |  |                                  |  |  |  |  |                |  |  |  |             |  |      |      |       |      |   |       |       |       |       |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |                                      |  |  |  |  |  |  |  |  |  |  |               |      |      |      |       |       |       |      |      |      |      |              |  |      |      |      |      |      |      |      |      |      |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |
| PE 0305208A   |                | 8853           | 8066           | 7943  | 8276           | 8360           | 8525                         | 8767                          | Cont                                    | Cont                 |                           |                |                |  |                |                |                |                    |                      |                                  |       |  |  |                                   |  |  |  |  |                                     |       |             |       |  |                |      |  |  |  |  |      |       |                                  |  |                                  |  |  |  |  |                |  |  |  |             |  |      |      |       |      |   |       |       |       |       |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |                                      |  |  |  |  |  |  |  |  |  |  |               |      |      |      |       |       |       |      |      |      |      |              |  |      |      |      |      |      |      |      |      |      |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |
| <b>RDTE, D</b> Budget Activity 7  |                |                |                |   |                |                |                              |                               |   |                      |                           |                |                |  |                |                |                |                    |                      |                                  |       |  |  |                                   |  |  |  |  |                                     |       |             |       |  |                |      |  |  |  |  |      |       |                                  |  |                                  |  |  |  |  |                |  |  |  |             |  |      |      |       |      |   |       |       |       |       |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |                                      |  |  |  |  |  |  |  |  |  |  |               |      |      |      |       |       |       |      |      |      |      |              |  |      |      |      |      |      |      |      |      |      |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |
| PE 0305208D Project PD8Z DARP   | 29062          |                |                |   |                |                |                              |                               | 0                                       | 29062                |                           |                |                |  |                |                |                |                    |                      |                                  |       |  |  |                                   |  |  |  |  |                                     |       |             |       |  |                |      |  |  |  |  |      |       |                                  |  |                                  |  |  |  |  |                |  |  |  |             |  |      |      |       |      |   |       |       |       |       |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |                                      |  |  |  |  |  |  |  |  |  |  |               |      |      |      |       |       |       |      |      |      |      |              |  |      |      |      |      |      |      |      |      |      |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |
| <b>Other Procurement Army, OPA-2</b>  |                |                |                |   |                |                |                              |                               |   |                      |                           |                |                |  |                |                |                |                    |                      |                                  |       |  |  |                                   |  |  |  |  |                                     |       |             |       |  |                |      |  |  |  |  |      |       |                                  |  |                                  |  |  |  |  |                |  |  |  |             |  |      |      |       |      |   |       |       |       |       |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |                                      |  |  |  |  |  |  |  |  |  |  |               |      |      |      |       |       |       |      |      |      |      |              |  |      |      |      |      |      |      |      |      |      |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |
| BZ7315 TENCAP   | 1618           | 6073           | 4370           | 12946   | 13876          | 15713          | 3897                         | 2943                          | Cont                                    | Cont                 |                           |                |                |  |                |                |                |                    |                      |                                  |       |  |  |                                   |  |  |  |  |                                     |       |             |       |  |                |      |  |  |  |  |      |       |                                  |  |                                  |  |  |  |  |                |  |  |  |             |  |      |      |       |      |   |       |       |       |       |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |                                      |  |  |  |  |  |  |  |  |  |  |               |      |      |      |       |       |       |      |      |      |      |              |  |      |      |      |      |      |      |      |      |      |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |
| BZ7316 CIGSS  |                | 2501           | 2791           | 2853  | 2624           | 2637           | 2683                         | 2751                          | Cont                                    | Cont                 |                           |                |                |  |                |                |                |                    |                      |                                  |       |  |  |                                   |  |  |  |  |                                     |       |             |       |  |                |      |  |  |  |  |      |       |                                  |  |                                  |  |  |  |  |                |  |  |  |             |  |      |      |       |      |   |       |       |       |       |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |                                      |  |  |  |  |  |  |  |  |  |  |               |      |      |      |       |       |       |      |      |      |      |              |  |      |      |      |      |      |      |      |      |      |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |
| <b>Procurement, Defense Wide</b>  |                |                |                |   |                |                |                              |                               |   |                      |                           |                |                |  |                |                |                |                    |                      |                                  |       |  |  |                                   |  |  |  |  |                                     |       |             |       |  |                |      |  |  |  |  |      |       |                                  |  |                                  |  |  |  |  |                |  |  |  |             |  |      |      |       |      |   |       |       |       |       |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |                                      |  |  |  |  |  |  |  |  |  |  |               |      |      |      |       |       |       |      |      |      |      |              |  |      |      |      |      |      |      |      |      |      |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |
| PE 0305208D Project PD8Z DARP   | 91824          |                |                |   |                |                |                              |                               | 0                                       | 91824                |                           |                |                |  |                |                |                |                    |                      |                                  |       |  |  |                                   |  |  |  |  |                                     |       |             |       |  |                |      |  |  |  |  |      |       |                                  |  |                                  |  |  |  |  |                |  |  |  |             |  |      |      |       |      |   |       |       |       |       |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |                                      |  |  |  |  |  |  |  |  |  |  |               |      |      |      |       |       |       |      |      |      |      |              |  |      |      |      |      |      |      |      |      |      |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |
| Project D909  |                |                |                |   |                |                |                              |                               | Page 3 of 6 Pages                       |                      | Exhibit R-2 (PE 0604766A) |                |                |  |                |                |                |                    |                      |                                  |       |  |  |                                   |  |  |  |  |                                     |       |             |       |  |                |      |  |  |  |  |      |       |                                  |  |                                  |  |  |  |  |                |  |  |  |             |  |      |      |       |      |   |       |       |       |       |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |                                      |  |  |  |  |  |  |  |  |  |  |               |      |      |      |       |       |       |      |      |      |      |              |  |      |      |      |      |      |      |      |      |      |                                  |  |  |  |  |  |  |  |  |  |  |                               |       |  |  |  |  |  |  |  |   |       |

## UNCLASSIFIED

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|--|---------|-------------------|---------------------|--|---------------------|---------------------------|---------------------|------------------------------|---------------------|---------------------|
| <b>ARMY RDT&amp;E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)</b>  |         |                   |                     |  |                     |                           |                     | DATE<br><b>February 1999</b> |                     |                     |
| BUDGET ACTIVITY<br><b>5 - Engineering and Manufacturing Development</b>  |         |                   |                     | PE NUMBER AND TITLE<br><b>0604766A Tactical Exploitation of National Capabilities (TENCAP) - Engineering &amp; Manufacturing Development (TIARA)</b> |                     |                           |                     | PROJECT<br><b>D909</b>       |                     |                     |
| <p><b>D. Acquisition Strategy:</b> As pioneers in streamlined acquisition, ASPO's success in delivering systems as those described above to warfighters can be directly attributed to an environment emphasizing stable funding, low density acquisition, minimal use of MILSPECS, and managed competition. By tailoring existing technology, leveraging the best commercial practices and using commercial and government-off the shelf software, ASPO minimizes risk while maximizing efficiency. Finally, dedicated cradle to grave Integrated Logistics Support (ILS) for TENCAP systems is accomplished through a coordinated effort by Government and contractor personnel and facilities.</p> |         |                   |                     |  |                     |                           |                     |                              |                     |                     |
| <b>E. Schedule Profile</b>   | FY 1996 | FY 1997           | FY 1998             | FY 1999  | FY 2000             | FY 2001                   | FY 2002             | FY 2003                      | FY 2004             | FY 2005             |
| Complete and Field DAMA Applique into SUCCESS Radios   |         |                   | 4 <sup>th</sup> QTR |  |                     |                           |                     |                              |                     |                     |
| Complete TES Critical Design Review  |         |                   | 3 <sup>rd</sup> QTR |  |                     |                           |                     |                              |                     |                     |
| Initiate migration of JTT into AEPDS and TES   |         |                   |                     | 2 <sup>nd</sup> QTR  |                     |                           |                     |                              |                     |                     |
| Complete integration of GBS into AEPDS and TES   |         |                   |                     | 4 <sup>th</sup> QTR  |                     |                           |                     |                              |                     |                     |
| Complete Prototype development of TES-Forward  |         |                   |                     | 4 <sup>th</sup> QTR  |                     |                           |                     |                              |                     |                     |
| Complete Prototype development of TES-Main   |         |                   |                     |  | 4 <sup>th</sup> QTR |                           |                     |                              |                     |                     |
| Complete development and integrate TSP into TES  |         |                   |                     |  |                     | 4 <sup>th</sup> QTR       |                     |                              |                     |                     |
| Complete development of TES #2   |         |                   |                     |  |                     | 4 <sup>th</sup> QTR       |                     |                              |                     |                     |
| Complete development of TES #3   |         |                   |                     |  |                     |                           | 4 <sup>th</sup> QTR |                              |                     |                     |
| Complete development of TES #4   |         |                   |                     |  |                     |                           |                     |                              | 4 <sup>th</sup> QTR |                     |
| Complete development of TES #5   |         |                   |                     |  |                     |                           |                     |                              |                     | 4 <sup>th</sup> QTR |
| Complete development of DTES prototype   |         |                   |                     |  |                     | 1 <sup>st</sup> QTR       |                     |                              |                     |                     |
| Complete operational testing DTES prototype  |         |                   |                     |  |                     | 3 <sup>rd</sup> QTR       |                     |                              |                     |                     |
|  |         |                   |                     |  |                     |                           |                     |                              |                     |                     |
| Project D909   |         | Page 4 of 6 Pages |                     |  |                     | Exhibit R-2 (PE 0604766A) |                     |                              |                     |                     |

## UNCLASSIFIED

| ARMY RDT&E COST ANALYSIS (R-3)  |                        |                                |                |              |  |              |                    |              |                    | DATE<br><b>February 1999</b> |            |                          |
|---|------------------------|--------------------------------|----------------|--------------|--|--------------|--------------------|--------------|--------------------|------------------------------|------------|--------------------------|
| BUDGET ACTIVITY<br><b>5 - Engineering and Manufacturing Development</b>   |                        |                                |                |              | PE NUMBER AND TITLE<br><b>0604766A Tactical Exploitation of National Capabilities (TENCAP) - Engineering &amp; Manufacturing Development (TIARA)</b> |              |                    |              |                    | PROJECT<br><b>D909</b>       |            |                          |
| I. Product Development  | Contract Method & Type | Performing Activity & Location | Total PYs Cost | FY 1999 Cost | FY 1999 Award Date   | FY 2000 Cost | FY 2000 Award Date | FY 2001 Cost | FY 2001 Award Date | Cost To Complete             | Total Cost | Target Value of Contract |
| a. TES #1 Prototype *   | C/CPAF                 | CLASSIFIED                     | 13111          | 17388        | 11/98  | 10259        | 11/99              |              | 0                  | 0                            | 40758      |                          |
| b. Common Baseline **   | SS/CPAF                | CLASSIFIED                     | 8321           | 16489        | 2/99   | 24045        | 2/00               | 24825        | 2/01               | 170828                       | 244508     |                          |
| c. TSP  | SS/CPAF                | CLASSIFIED                     | 0              | 3000         | 11/98  | 8000         | 11/99              | 8000         | 11/00              | 0                            | 19000      |                          |
| d. TES #2 EDM*  | SS/CPAF                | CLASSIFIED                     | 0              |              |  | 16391        | 3/00               | 6224         | 11/00              | 0                            | 22615      |                          |
| e. TES #3 EDM*  | SS/CPAF                | CLASSIFIED                     | 0              |              |  |              |                    | 5522         | 11/00              | 15525                        | 21047      |                          |
| f. DTES   | SS/CPAF                | CLASSIFIED                     | 0              |              |  | 6500         | 4/00               |              |                    | 47674                        | 54174      |                          |
| g. TDL Collector  | TBD                    | TBD                            | 0              |              |  |              |                    | 6500         | 1/01               |                              | 6500       |                          |
| Subtotal Product Development:   |                        |                                | 21432          | 36877        |  | 65195        |                    | 51071        |                    | 234027                       | 408602     |                          |
| Remark: *TES development is also partially funded under PE 0305208A.<br>**Common Baseline addresses common subsystems, planned improvements, key activities, and ongoing/planned initiatives determined to have potential application to multiple TENCAP systems (including MIES, ETRAC, and TES that have funding under PE 0305208A) |                        |                                |                |              |  |              |                    |              |                    |                              |            |                          |
| II. Support Costs   | Contract Method & Type | Performing Activity & Location | Total PYs Cost | FY 1999 Cost | FY 1999 Award Date   | FY 2000 Cost | FY 2000 Award Date | FY 2001 Cost | FY 2001 Award Date | Cost To Complete             | Total Cost | Target Value of Contract |
| a. System Engineering (Government)  |                        |                                |                | 1235         |  | 1458         |                    | 1504         |                    | CONT                         | 4197       |                          |
| b. ASPO In-house  |                        |                                |                | 2788         |  | 2610         |                    | 2536         |                    | CONT                         | 7934       |                          |
| c. FFRDC  |                        |                                |                | 1403         |  | 1677         |                    | 1397         |                    | CONT                         | 4477       |                          |
| d. SBIR/STTR  |                        |                                |                | 1647         |  |              |                    |              |                    |                              | 1647       |                          |
| Subtotal Support Costs:   |                        |                                |                | 7073         |  | 5745         |                    | 5437         |                    |                              | 18255      |                          |
| III. Test and Evaluation  | Contract Method & Type | Performing Activity & Location | Total PYs Cost | FY 1999 Cost | FY 1999 Award Date   | FY 2000 Cost | FY 2000 Award Date | FY 2001 Cost | FY 2001 Award Date | Cost To Complete             | Total Cost | Target Value of Contract |
| a. DTES   | TBD                    | TBD                            | 0              |              |  |              |                    | 500          | 3/01               | 0                            | 500        |                          |
| Subtotal Test and Evaluation:   |                        |                                |                |              |  |              |                    | 500          |                    |                              | 500        |                          |
| IV. Management Services: Not applicable   |                        |                                |                |              |  |              |                    |              |                    |                              |            |                          |
| <div style="display: flex; justify-content: space-between;"> <span>Project D909</span> <span>Page 5 of 6 Pages</span> <span>Exhibit R-3 (PE 0604766A)</span> </div>   |                        |                                |                |              |  |              |                    |              |                    |                              |            |                          |

| ARMY RDT&E COST ANALYSIS (R-3)  |                   |                 |  |  |  |                 |  | DATE<br>February 1999  |               |                                |
|---|-------------------|-----------------|--|--|--|-----------------|--|------------------------|---------------|--------------------------------|
| BUDGET ACTIVITY<br><b>5 - Engineering and Manufacturing Development</b> |                   |                 |  | PE NUMBER AND TITLE<br><b>0604766A Tactical Exploitation of National Capabilities (TENCAP) - Engineering &amp; Manufacturing Development (TIARA)</b> |  |                 |  | PROJECT<br><b>D909</b> |               |                                |
|   | Total<br>PYs Cost | FY 1999<br>Cost |  | FY 2000<br>Cost  |  | FY 2001<br>Cost |  | Cost To<br>Complete    | Total<br>Cost | Target<br>Value of<br>Contract |
| Project Total Cost:   | 21432             | 43950           |  | 70940  |  | 57008           |  | 234027                 | 427357        |                                |
|   |                   |                 |  |  |  |                 |  |                        |               |                                |
|   |                   |                 |  |  |  |                 |  |                        |               |                                |
|   |                   |                 |  |  |  |                 |  |                        |               |                                |
|   |                   |                 |  |  |  |                 |  |                        |               |                                |
| Project D909  |                   |                 |  |  |  |                 |  |                        |               |                                |
| Page 6 of 6 Pages   |                   |                 |  |  |  |                 |  |                        |               |                                |
| Exhibit R-3 (PE 0604766A)   |                   |                 |  |  |  |                 |  |                        |               |                                |